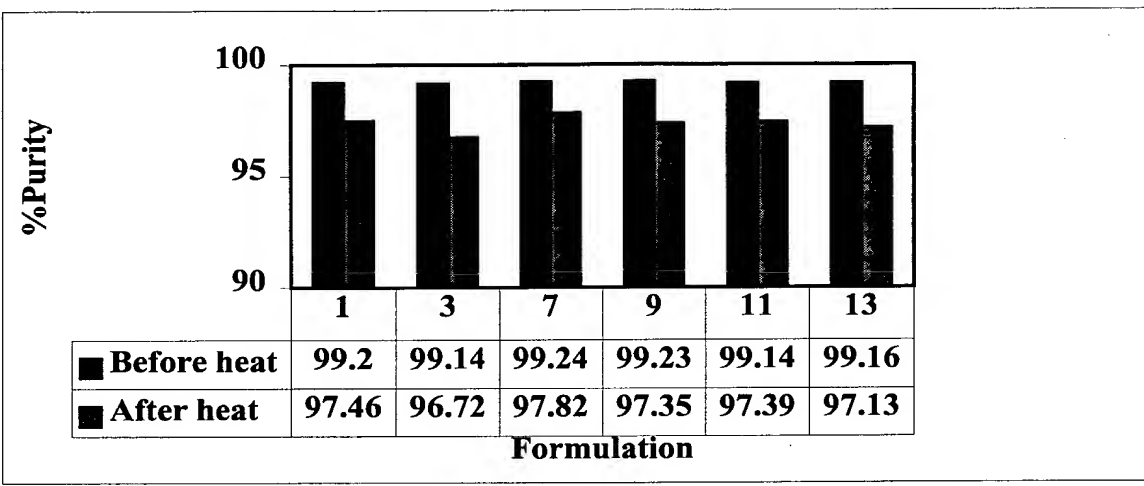


APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: GLP-2 FORMULATIONS  
 Inventor(s): Indu J. Isaacs  
 Appl. No.: Not yet assigned  
 Atty. Docket No. 016777/0454

**Figure 1. Amino acids screening in buffers using heat stress.**



**Formulation**

- 1. 10 mM Phosphate, 10 mM Glu
- 3. 10 mM Phosphate, 10 mM Citrate
- 7. 10 mM Phosphate, 10 mM Ser
- 9. 10 mM Phosphate, 10 mM Pro
- 11. 10 mM Phosphate, 10 mM His
- 13. 10 mM Phosphate, 10 mM Gly

Docket: 2009260

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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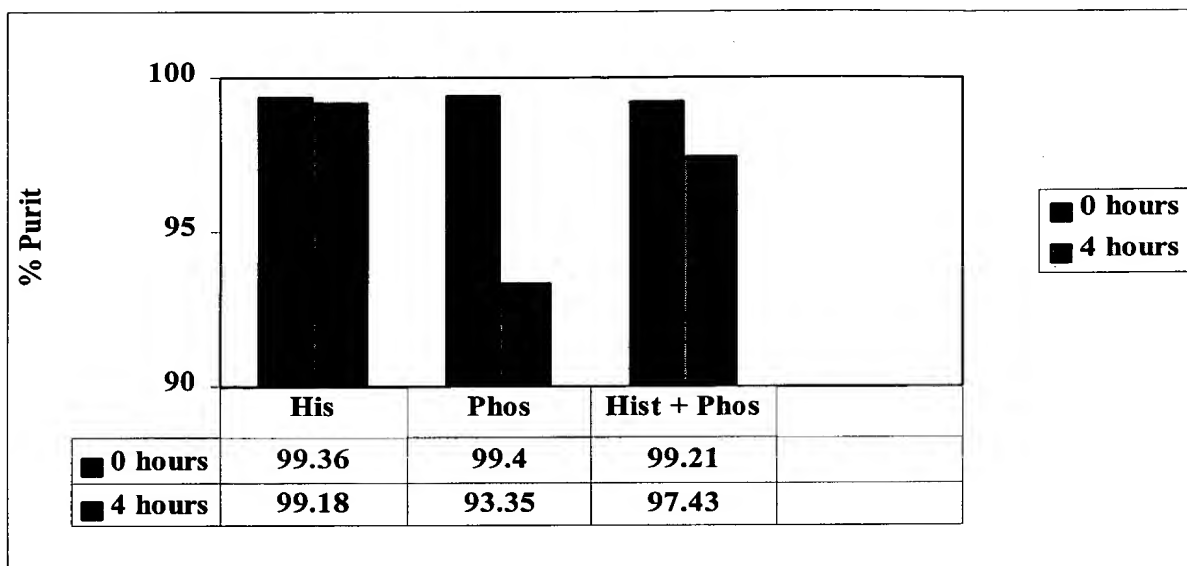
Title: GLP-2 FORMULATIONS

Inventor(s): Indu J. Isaacs

Appl. No.: Not yet assigned

Atty. Docket No. 016777/0454

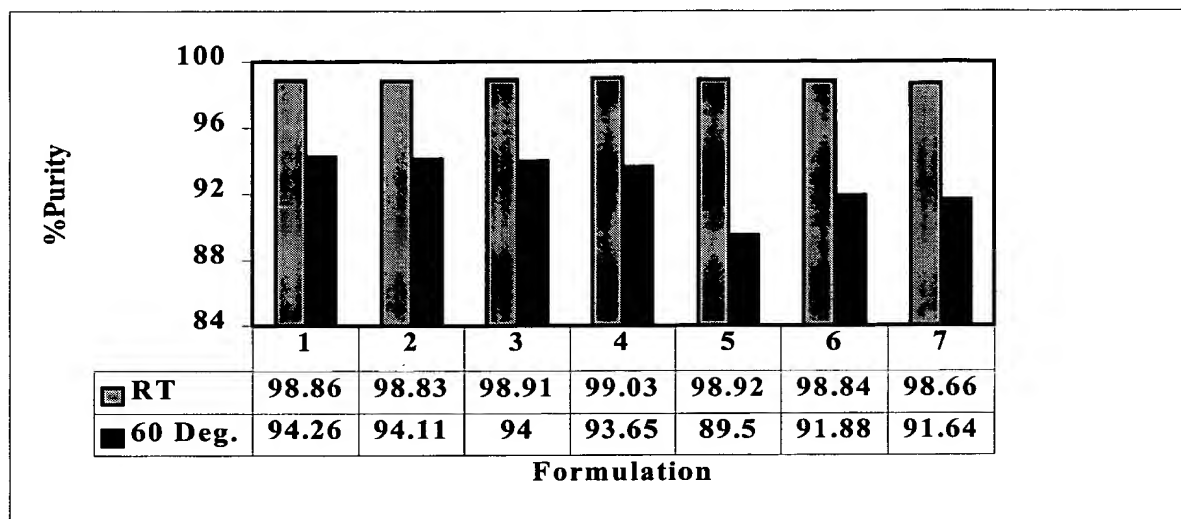
**Figure 2. Screening of buffers using heat stress.**



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

Title: GLP-2 FORMULATIONS  
Inventor(s): Indu J. Isaacs  
Appl. No.: Not yet assigned  
Atty. Docket No. 016777/0454

Figure 3. Screening of Bulking agents analyzed by RP-HPLC.



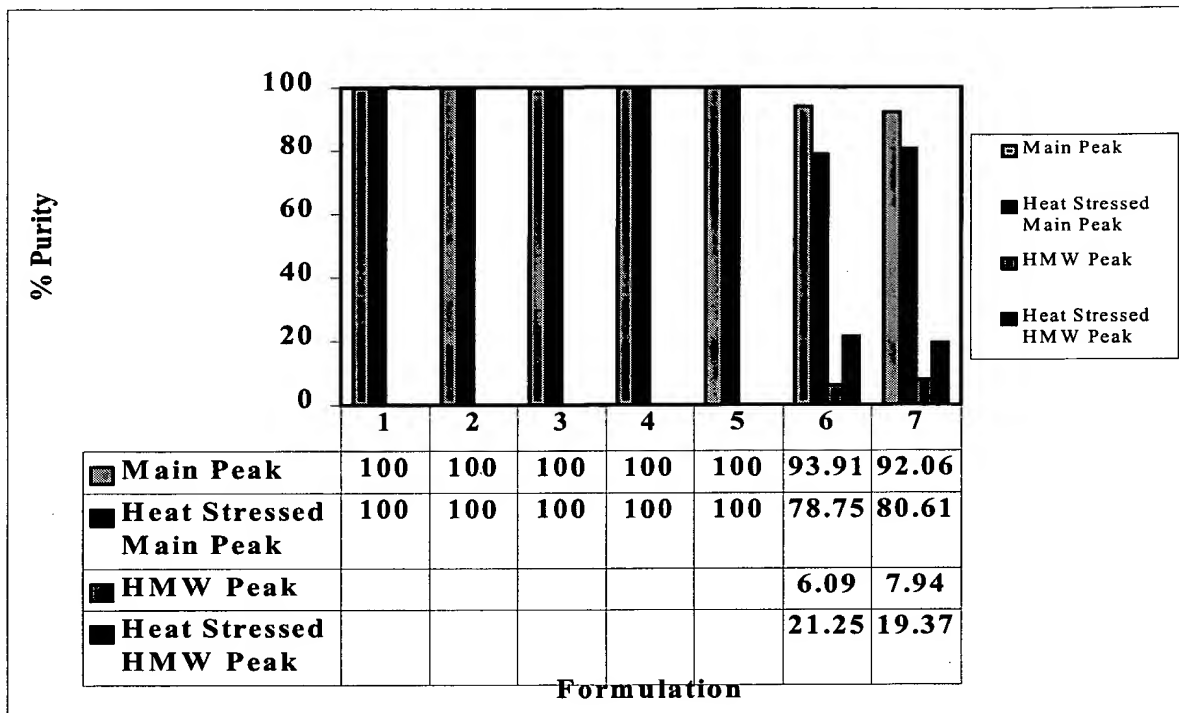
**Formulation**

1. 25 mM Histidine, 35 mM phosphate, 3% Mannitol
2. 50 mM Histidine, 35 mM phosphate, 3% Mannitol
3. 75 mM Histidine, 35 mM phosphate, 3% Mannitol
4. 25 mM Histidine, 25 mM phosphate, 3% sucrose
5. 25 mM Histidine, 25 mM phosphate, 3% trehalose
6. 25 mM Histidine, 25 mM phosphate, 3% maltose
7. 25 mM Histidine, 25 mM phosphate, 3% lactose

APPROVED	Q.G. FIG.	
BY	CLASS	SUBCLASS
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Title: GLP-2 FORMULATIONS  
Inventor(s): Indu J. Isaacs  
Appl. No.: Not yet assigned  
Atty. Docket No. 016777/0454

Figure 4. Bulking agents analyzed by SE-HPLC.



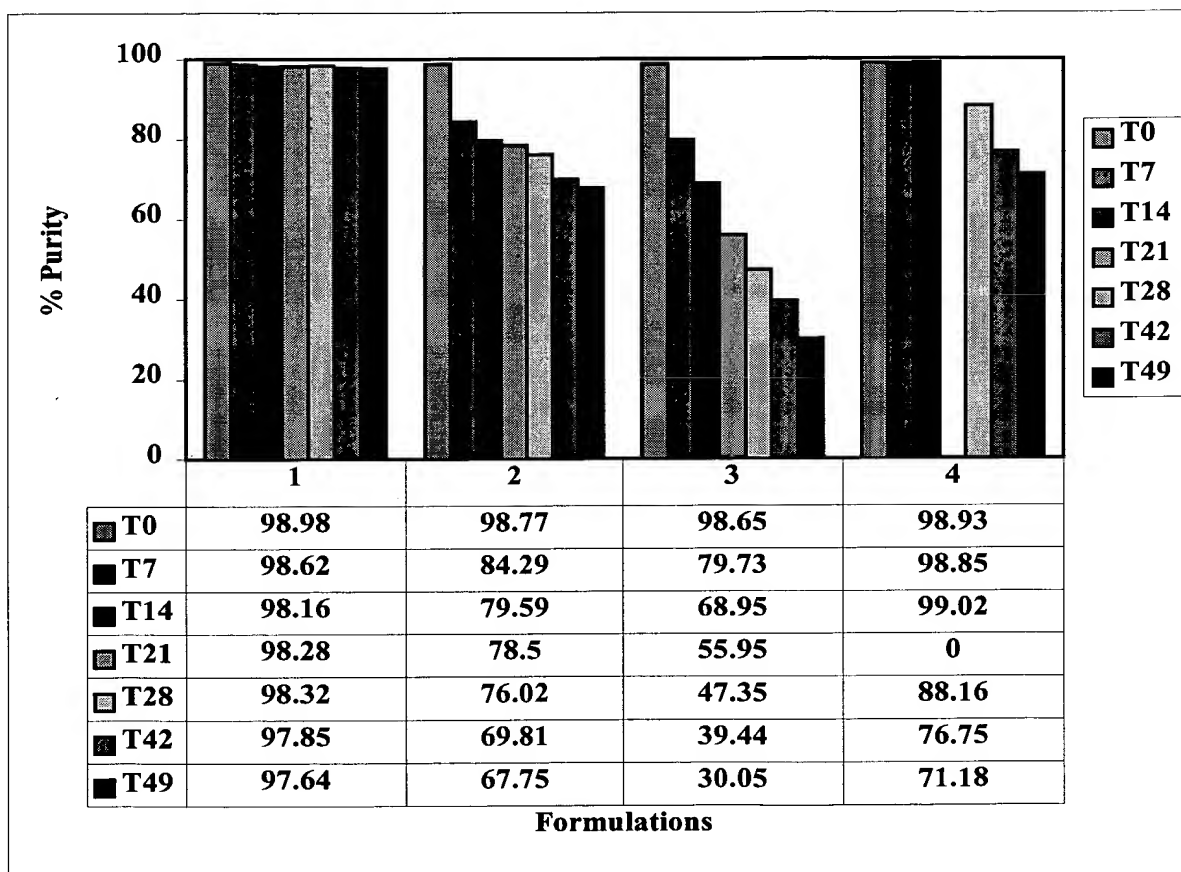
Formulation

- 25 mM Histidine, 35 mM phosphate, 3% Mannitol
- 50 mM Histidine, 35 mM phosphate, 3% Mannitol
- 75 mM Histidine, 35 mM phosphate, 3% Mannitol
- 25 mM Histidine, 25 mM phosphate, 3% sucrose
- 25 mM Histidine, 25 mM phosphate, 3% trehalose
- 25 mM Histidine, 25 mM phosphate, 3% maltose
- 25 mM Histidine, 25 mM phosphate, 3% lactose

APPROVED	O G. FIG.	
BY	CLASS	SUBCLASS
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Title: GLP-2 FORMULATIONS  
Inventor(s): Indu J. Isaacs  
Appl. No.: Not yet assigned  
Atty. Docket No. 016777/0454

Figure 5. Stability of liquid formulations stored at 4 °C.



#### Formulations

- 35 mM Phosphate, 50 mM Histidine, 3% Mannitol, pH 7.4
- 35 mM Phosphate, 50 mM Histidine, 5% Sucrose, pH 7.4
- 35 mM Phosphate, 25 mM Lysine, 3% Mannitol, pH 7.4
- 35 mM Phosphate, 25 mM Lysine, 5% Mannitol, pH 7.4

APPROVED	O G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

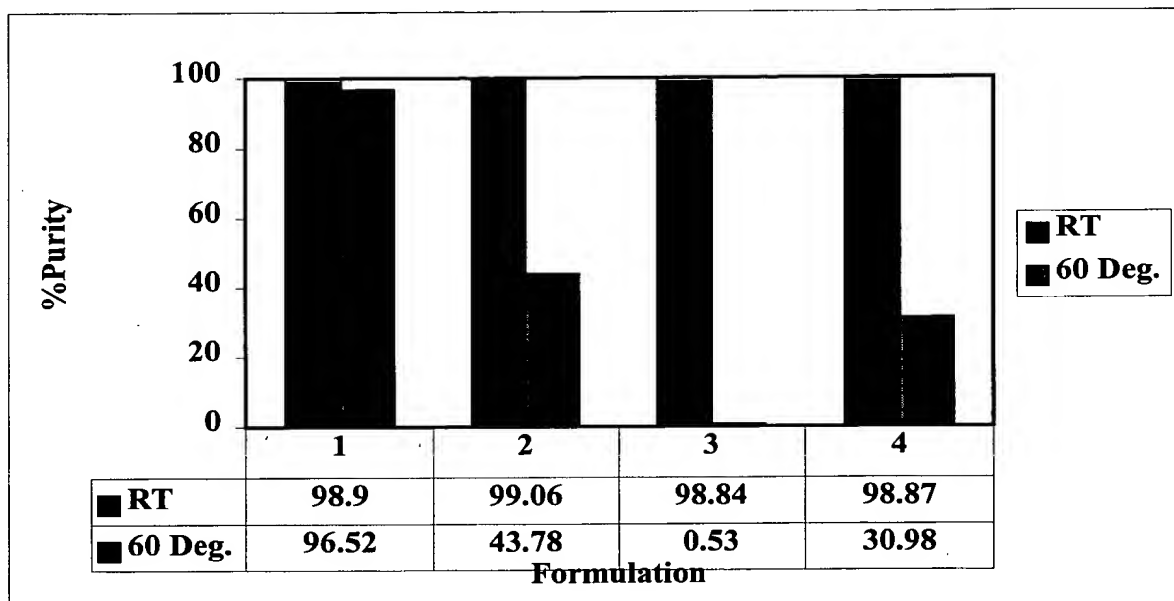
Title: GLP-2 FORMULATIONS

Inventor(s): Indu J. Isaacs

Appl. No.: Not yet assigned

Atty. Docket No. 016777/0454

**Figure 6. Heat stressed samples.**



**Formulations**

1. 35 mM Phosphate, 50 mM Histidine, 3% Mannitol, pH 7.4
2. 35 mM Phosphate, 50 mM Histidine, 5% Sucrose, pH 7.4
3. 35 mM Phosphate, 25 mM Lysine, 3% Mannitol, pH 7.4
4. 35 mM Phosphate, 25 mM Lysine, 5% Mannitol, pH 7.4

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